Request a Quote

(800) 775-6525 Fax: (800) 421-2923
engineering@marcorubber.com
www.marcorubber.com

Marco Compound # L1007
75 Durometer, Black, General Use Aflas®
Technical Datasheet

General Description:
TFE/P (Aflas) compounds exhibits excellent chemical, heat and steam resistance. They provide superior performance in water, steam and virtually all caustics making them ideal for pharmaceutical and biotechnology manufacturers that use steam and caustic chemicals in the sterilization process. Our L1007 Aflas 75 durometer compound provides excellent performance in SIP (steam in place), CIP (clean in place) and WFI (water for injection) applications. Please contact engineering@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, chemicals, or physical properties is required.

Features:
- Excellent steam and caustic resistance up to 485° F (250° C)
- Resistant to acids and bases
- Amines and H_2S resistance
- Ozone resistance
- Resistant to highly reactive organic and inorganic chemicals
- Excellent volume resistivity (greater than $10^{16}\Omega$ cm)
- Radiation resistance up to 200 MRad of gamma-ray radiation
- Unaffected by extended exposure to 200 °C steam
- Continuous use at 230 °C
- Resistant to highly reactive organic and inorganic chemicals

Limitations:
- Aromatic Fuels
- Ketones
- Carbon tetrachloride
- Chlorinated Hydrocarbons
- Organic Refrigerants

Service Temperature:
-13 to 485°F (-25 to 250°C), with excursions up to 555°F (290°C).

TYPICAL PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM Method	Typical Test Reports
Hardness, Shore A	D 1415	75
Color		Black
Tensile Strength, MPa	D 412	21.4
Ultimate Elongation, %	D 412	178
Compression Set, % (24 hrs. @ 200°C)	D 395	28

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HEAT RESISTANCE – ASTM D 573 (72 hrs. @ 200°C)	**Typical Test Reports**
Hardness Change, points	+1
Tensile Strength Change, %	-6
Ultimate Elongation Change, %, max.	+18

LOW TEMPERATURE RESISTANCE	**Typical Test Reports**
TR-10, °C	-5
Non Brittle for 3 min. @ -25°C	PASS